

ABSTRACT

A multi-band helical antenna of the present invention includes a dielectric body including a plurality of dielectric sheets stacked in a predetermined order and a
5 first and a second metallic pattern sections provided in the dielectric body. The first metallic pattern includes a plurality of first partially opened metallic loop patterns and a plurality of first connection elements connecting the respective adjacent first partially opened metallic loop
10 patterns to form a first spiral structure. The second metallic pattern section includes a plurality of second partially opened metallic loop patterns and a plurality of second connection elements connecting the respective adjacent second partially opened metallic loop patterns to
15 form a second spiral structure. The first and the second metallic pattern sections having different entire lengths. Accordingly, the multi-band helical antenna of the present invention has a dual resonant frequency characteristic and operates in different frequency bands.